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L1	332	(mobile adj terminal) and (diversity with (antenna or branches)) and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 09:17
L2	319	(mobile adj terminal) and (diversity with (antenna)) and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 09:17
L3	139	(mobile adj terminal) and (diversity near (antenna)) and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 09:18
L4	12	(mobile adj terminal) with (diversity near (antenna)) and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 09:18
L7	3104	375/354	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 10:25
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L9	5	1 and 7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 10:25
L10	6	1 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 10:27

S1	1	"10/021220"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 15:30
S2	2	("5321850").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 19:22
S3	2	("6347234").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 19:24
S4	3337	synchronization with code and base and mobile	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 19:24
S5	615	(synchronization adj code) and base and mobile	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 19:25
S6	150	(synchronization adj code) and base and mobile and diversity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 19:25
S7	34	((synchronization adj code) same diversity) and base and mobile	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 19:32
S8	8	("20030076875" "5790588" "6347234" "6356605").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 19:32

S9	5065	mobile with array	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 19:36
S10	114	(mobile adj terminal) with diversity with antenna	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 19:36
S11	5	((mobile adj terminal) with diversity with antenna) same synchronization	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/16 19:42
S12	10	(mobile adj terminal) and (diversity with (antenna or branches)) and (synchronization adj code)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 09:17

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Since the received Multipath signals are fading independently, **diversity** order ... before the transmission of a random access request, the **mobile terminal** ...

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diversity. Expressing the same phenomenon in the frequency. domain means that the bandwidth ... **diversity** order and Thus performance are improved. Fig. 14 ...

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The secondary **synchronization code** is chosen from a set of 16 different codes

... suitable especially if the **mobile terminal** employs antenna **diversity**. ...

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... FORWARD **CDMA** CHANNEL for Spreading Rates 1 and ... **code c i k** : secondary **synchronization code** corresponding to ... STTD (Space Time Transmit **Diversity**) indication bit ...

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The primary **synchronization code** is the same for every ... margin and soft HO **diversity** gain, a **CDMA** specific item in the power budget. Some ...

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which macro-**diversity** is applied (**diversity** link), that is at the access point and also at ... 3. provide packet discrimination within the **mobile terminal**, ...

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CDMA see Code Division Multiple Access. **CDMA** Multi-Carrier Mode ... PSC see primary **synchronization code**. PSCH see Physical Synchronization Channel ...

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- ☐ 1. [Iowa State University EE 521 \[PDF-7K\]](#)
Dec 2000
...of the problems faced by DS-**CDMA** · IS-95 became a successful...2]
Steele, Raymond. "The **Evolution** of Personal Communications...Ramjee
and Tero Ojanperä. "An **Overview** of **CDMA Evolution toward Wideband
CDMA**." IEEE Communications Surveys...
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...lower for the Direct Spreading **CDMA** than for a system with
error...effectiveness of Direct Spreading **CDMA** we are going to compare
an...R. Prasad, T. Ojanpera, "An **Overview** of **CDMA Evolution Toward
Wideband CDMA**", http:// www.comsoc.org/pubs...
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- ☐ 3. [Uma Visão Geral do CDMA2000 \[PDF-35K\]](#)
Jun 2001
...Acesso Múltiplo por Divisão de Código (**CDMA** de Code Division Multiple
Access) como...baseada na evolução do atual sistema **CDMA** cdmaOne. 2
3ª Geração de Sistemas Celulares...cdma2000. Geração Atual do Sistema
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...Surveys Welcome to Communications International An **Overview** of
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May 2001
...and Protocol Testing (html) (pdf) Wideband Code Division Multiple Access
(WCDMA) (html) (pdf) An **Overview** of **CDMA Evolution toward**

Wideband CDMA, by Ramjee Prasad and Tero Ojanpera
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...that contrasts GSM and **CDMA** networks, investigating...well as the projected **evolution towards** more advanced technologies...model determines that **CDMA** deployments instill flexibility and better **evolutionary** properties to the network...
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...information? Here are some links of interest: The **CDMA** Development Group (The Industry body for **CDMA**) An **Overview of CDMA Evolution toward Wideband CDMA** (A nice technical piece I stumbled on while...
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Hong Zhang, Oct 2001
...Hong Zhang (94027T) **Overview** Of The Handover Policies...supported by TDMA, FDMA and **CDMA** systems. In WCDMA all...essential and critical part of **wideband CDMA** system. The rest of this...system and multi-carrier **CDMA**. The inter -system handover...
[<http://www.comlab.hut.fi/ARG/hzhang/Overview%20of%20th...>]
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Nov 2000
...3.51-3.65 [6]IEEE Communication Surveys AN **OVERVIEW OF CDMA EVOLUTION TOWARD WIDEBAND CDMA** - R.Prasad, T.Ojanpera - .
www.comsoc.org/pubs...COMMUNICATION ed. Prantice hall pag..422-424
[11] **CDMA** developpment group - www.cdg.org [12] www.gnc...
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Ma, Guibin, May 2001
...radio pharmaceutical in cardiac imaging, etc. Due to its similarity to alkali metal ions, recently attention has been drawn **towards** using thallium as a probe in biological systems, such as natural waters or body fluids. However, the main use for thallium...
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13.00 i Kollegiesalen, KTH, Valhallavägen 79, Stockholm. Stockholm 2000
Adress to the author: Eric Laarz Institute for Surface Chemistry P.O. Box 5607 SE - 11486 Stockholm Sweden ISBN 91-7170-649-6 Denna avhandling är skyddad enligt upphovsrättslagen.
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Trinius, Wolfram, Jan 2000
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 ...Figure 1 shows the various **evolution** scenarios, [1]. Although **wideband CDMA (W-CDMA)**, also known as International...GSM operators are moving **toward** the General Packet Radio...Enhanced Data Rate for Global **Evolution (EDGE)**, which delivers 384...
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 ...Review No. 3, 1999 **Toward** third-generation...development and **evolution** of future networks...reader through an **overview** of third-generation...exclusive use of **CDMA** Development...migrating **CDMA/IS-95 toward** 3G (The standard...technology that is an **evolutionary** outgrowth of...protocol WCDMA **Wideband CDMA** WCDMA-DS Direct-sequence...
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 ...Multiple Access (**CDMA**) called cdma2000...third generation **CDMA** called WCDMA...chapter provides an **overview** of the air interfaces...of these two **CDMA** approaches for...pertaining to the **evolution** of TIA/EIA-95B...standardization of a **wideband CDMA** system. The technology...WCDMA is targeted **toward** GSM **evolution**...
[\[http://www.ece.osu.edu/~daiw/Mobile_communication_hand...\]](http://www.ece.osu.edu/~daiw/Mobile_communication_hand...)
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 ...formation and regulation. To measure progress **toward** this goal, Congress required the Federal...international developments. Mobile Telephone **Overview** and Analysis Market Structure Spectrum...which Verizon Wireless plans to convert to **CDMA** as quickly as possible after the closing...
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 ...have accelerated **toward** concrete specifica...direct-sequence **CDMA (DS-CDMA)** has been chosen...proposal is the 3G **evolution** of the IS-136 family...TIA TR45.3 WIMS W-**CDMA** Wireless Multimedia...TR46.1 Services **Wideband CDMA** TD-SCDMA Time-division...
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- ☐ **19. Cognitive radio**
Mitola, Joseph, Jan 2000
 ...e.g. based on **CDMA** CIR Carrier to...design language W-**CDMA**

Wideband CDMA, the emerging international...Introduction 1 1.1

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FRIGON, Jean-Franç / ois / INNOVICS WIRELESS, INC., PATENT COOPERATION TREATY APPLICATION, Jun 2003
 ...USING RECEIVE **DIVERSITY** FIELD OF...between a **mobile terminal** and wireless...multiple access (**CDMA**) or wideband-**CDMA**...oscillator, the **mobile terminal** oscillator...until the **synchronization code** is detected...Search in W-**CDMA**, IEEE JSAC...transmitted in a **synchronization code** by the base-station...synchronize the **mobile terminal's** oscillator...
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 Feb 2004
 ...European project MATRICE on MC-**CDMA** for future cellular radio systems...code generation in Wideband **CDMA** from the STMicroelectronics...novel approach for the basic **CDMA** code generation in such a terminal...algorithm for the estimation of the **mobile terminal** speed using the normalized...
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DOHLER, Mischa / AGHVAMI, Abdol, Hamid / SAID, Fatin / GHORASHI, Seyed, Ali / KING'S COLLEGE LONDON, PATENT COOPERATION TREATY APPLICATION, Jan 2003
 ...achieve "receive" **diversity** since it receives...signal from the **mobile terminal** (also known...transmit to a **mobile terminal** this is known as "transmit **diversity**". A useful...Achieving receive **diversity** at the **mobile terminal** by spatial...
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 Performance Criteria 21 **Diversity** 23 Different dB Units 24 Smart...Code Division
 Multiple Access (**CDMA**) 33 Space Division Multiple...Systems 45 Chapter 7 Wideband
CDMA (WCDMA) 53 Introduction 53...
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 Mar 2004
 ...PDC GPRS IMT-DS UTRA FDD / W-**CDMA** EDGE IMT-TC UTRA TDD / TD-**CDMA**
 cdma2000 1X 1X EV-DV (3X) AMPS...TD-SCDMA CT0/1 CT2 IMT-FT DECT **CDMA** TDMA
 FDMA IMT-MC cdma2000 1X...data transmission to/from the **mobile terminal** using the
 signaling channel...
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- ☐ **7. SYSTEM AND METHOD FOR EMBEDDING OFDM IN CDMA SYSTEMS**
WU, Shiquan / TONG, Wen / ZHU, Peiying / JIA, Ming / XU, Hua, / BOUDREAU, Daniel / WU, Jianming / (...) / NORTEL NETWORKS LIMITED, PATENT
 COOPERATION TREATY APPLICATION, Feb 2005
 ...METHOD FOR EMBEDDING OFDM IN **CDMA** SYSTEMS Field of the Invention...0 shows a
 block diagram of **CDMA** mode reception in the presence...factor OVFS space 3 6, and a
synchronization code space 3 8 (more generally a...code at 44. Then, the combined
CDMA signal produced as a result...
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- ☐ **8. SYSTEMS AND METHODS FOR SELECTING A CELL IN A COMMUNICATIONS NETWORK**
WANG, Yi-Pin, Eric / TELEFONAKTIEBOLAGET LM ERICSSON (publ), PATENT
 COOPERATION TREATY APPLICATION, Nov 2002
 ...To do so, the **mobile terminal** 140 may search...the primary **synchronization code**
 transmitted...obtained, the **mobile terminal** 140 knows the...the secondary
synchronization code. There may be...the primary **synchronization code** matched
 filter...stage two, the **mobile terminal** 140 uses the...
Full text available at patent office. For more in-depth searching go to  LexisNexis-
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- ☐ **9. METHOD AND APPARATUS FOR FREQUENCY-ROBUST DETECTION OF A WIDEBAND CODE**
 DIVISION MULTIPLE ACCESS SECONDARY SYNCHRONIZATION...
LITWIN, Louis, Robert / KEEL, Alton, Shelborne / GAO, Wen / THOMSON
LICENSING S.A., PATENT COOPERATION TREATY APPLICATION, Jan 2005
 ...a primary **synchronization code** ("PSC") frequency...exemplary **CDMA**
 receiver...synchronize a **mobile terminal** such as a...acquired by a **mobile terminal**,
 the receiver...indicate to the **mobile terminal** whether or...transmit **diversity**
 ("STTD...the Primary **Synchronization Code** ("PSC") and...
Full text available at patent office. For more in-depth searching go to  LexisNexis-
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- ☐ **10. Microsoft Word - UTRA.doc** [PDF-393K]
 Oct 1998
 ...Deallocation Acknowledgement **CDMA** Code Division Multiple Access...Discontinuous
 Transmission DS-**CDMA** Direct-Sequence Code Division...transport networks · Macro
diversity is fully handled in the UTRAN...splitting function to support macro **diversity**
 between different Node B. The...
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 Feb 1999
 ...this comparison, the macro-**diversity** control function or the handover...and the UE.
 3.4.2.3.3 Macro-**diversity** control Upon request of the...cells) from/ towards a single
mobile terminal. This function also controls...generated by a single source (**diversity**

link), but conveyed via several...

[<http://www.s2.chalmers.se/graduate/courses/cdma/doc/ut...>]

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☐ **12. Main.dvi** [PDF-276K]

Oct 2003

...62 4.6.3 Transmit **Diversity** with Beamforming Feature...4.6.5 Closed Loop Transmit

Diversity Mode 2 with Reduced States...64 4.6.6 4-TX-STTD **Diversity**

Scheme...Division Multiple Access (W-**CDMA**) will be used in the paired...

[http://www.nt.tuwien.ac.at/mobile/theses_finished/PhD_...]

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☐ **13. A 2D RAKE RECEIVER FOR USE IN WIRELESS COMMUNICATION SYSTEMS**

DAI, Yanzhong / XU, Luzhou / LI, Yan / KONINKLIJKE PHILIPS ELECTRONICS

N.V., *PATENT COOPERATION TREATY APPLICATION*, Jun 2005

...multipath signals in time **diversity** to achieve time **diversity** gain. Fig.1 displays...to achieve space **diversity** gain. Fig.2 displays...spreading codes in **CDMA** IS95, CDMA2000 and...receiver 330 of the **mobile terminal** respectively receive...

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 Ojanpera, T.; Prasad, R.;
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